

**Supplementary material**

**Table S4** Overview of Chi-square test results for KwaZamokuhle and eMzinoni presenting fuel use patterns, stove use and the presence and absence of smoke in the dwelling in the context of allergy sensitivity results from the conducted Phadiotop tests.

		<b>KwaZamokuhle</b>				<b>eMzinoni</b>			
		<b>N=190</b>		<b>N=70</b>		<b>N=70</b>		<b>N=70</b>	
<b>Variable</b>	<b>Variable Category</b>	<b>Allergen Sensitivity</b>		<b>X<sup>2</sup></b>	<b>P-value</b>	<b>Allergen Sensitivity</b>		<b>X<sup>2</sup></b>	<b>P-value</b>
		<b>Yes</b>	<b>No</b>			<b>Yes</b>	<b>No</b>		
<b>Main cooking fuel</b>	<i>Electricity</i>	22	60			11	37		
	<i>LPG</i>	1	1			-	-		
	<i>Wood</i>	3	2	3.162	0.367	0	1	0.579	0.748
	<i>Coal</i>	27	74			6	15		
	<b>Total</b>	<b>53</b>	<b>137</b>			<b>17</b>	<b>53</b>		
		<b>KwaZamokuhle</b>				<b>eMzinoni</b>			
		<b>N=190</b>		<b>N=70</b>		<b>N=70</b>		<b>N=70</b>	
<b>Variable</b>	<b>Variable Category</b>	<b>Allergen Sensitivity</b>		<b>X<sup>2</sup></b>	<b>P-value</b>	<b>Allergen Sensitivity</b>		<b>X<sup>2</sup></b>	<b>P-value</b>
		<b>Yes</b>	<b>No</b>			<b>Yes</b>	<b>No</b>		
<b>Main heating fuel</b>	<i>Electricity</i>	1	1			5	12		
	<i>LPG</i>	1	3			1	1		
	<i>Wood</i>	2	9	1.057	0.901	0	1	1.694	0.792
	<i>Coal</i>	48	121			11	38		
	<i>Other</i>	1	3			0	1		
<b>Total</b>	<b>53</b>	<b>137</b>			<b>17</b>	<b>53</b>			
		<b>KwaZamokuhle</b>				<b>eMzinoni</b>			
		<b>N=190</b>		<b>N=70</b>		<b>N=70</b>		<b>N=70</b>	
<b>Variable</b>	<b>Variable Category</b>	<b>Allergen Sensitivity</b>		<b>X<sup>2</sup></b>	<b>P-value</b>	<b>Allergen Sensitivity</b>		<b>X<sup>2</sup></b>	<b>P-value</b>
		<b>Yes</b>	<b>No</b>			<b>Yes</b>	<b>No</b>		
<b>Main lighting fuel</b>	<i>Electricity</i>	53	136			17	52		
	<i>LPG</i>	0	1	0.389	0.533	-	-	0.325	0.568
	<i>Other</i>	-	-			0	1		
	<b>Total</b>	<b>53</b>	<b>137</b>			<b>17</b>	<b>53</b>		

		KwaZamokuhle				eMzinoni			
		N=190				N=70			
Variable	Variable Category	Allergen Sensitivity		X <sup>2</sup>	P-value	Allergen Sensitivity		X <sup>2</sup>	P-value
		Yes	No			Yes	No		
Stove use	Hybrid (electric + LPG)	2	1			0	1		
	Electric	22	53			6	20		
	LPG	1	1			-	-		
	Paraffin	-	-			-	-		
	Mbaula	-	-	3.168	0.530	0	1	0.835	0.934
	Cast iron stove	24	69			10	29		
	Own welded stove	4	13			1	2		
Other	-	-			-	-			
	<b>Total</b>	<b>53</b>	<b>137</b>			<b>17</b>			
		KwaZamokuhle				eMzinoni			
		N=190				N=70			
Variable	Variable Category	Allergen Sensitivity		X <sup>2</sup>	P-value	Allergen Sensitivity		X <sup>2</sup>	P-value
		Yes	No			Yes	No		
Stove smoke	Yes	14	50			8	25		
	No	39	87	1.739	0.187	9	28	0.0001	0.994
	<b>Total</b>	<b>53</b>	<b>137</b>			<b>17</b>	<b>53</b>		